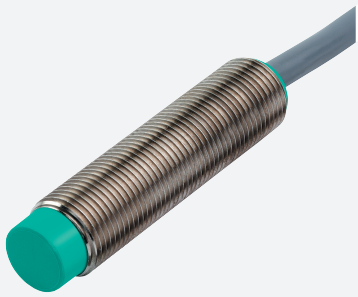


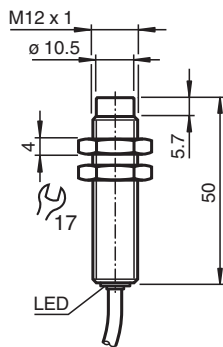
Inductive sensor NEN10-12GM50-E3



- Increased operating distance
- 10 mm non-flush



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)	
Output type		PNP
Rated operating distance	s_n	10 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 8.1 mm
Actuating element	mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 30 mm x 30 mm x 1 mm	
Reduction factor r_{Al}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.75
Reduction factor r_{Brass}		0.45
Output type		3-wire

Nominal ratings

Installation conditions		
A		in steel 1.0037 (St37): 10 mm
B		12 mm
C		30 mm
F		42 mm
Operating voltage	U_B	10 ... 30 V DC

Release date: 2024-05-28 Date of issue: 2024-06-06 Filename: 231720_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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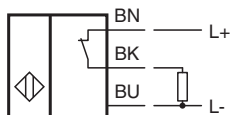
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PEPPERL+FUCHS

Technical Data

Switching frequency	f	0 ... 600 Hz
Hysteresis	H	0.06 ... 1 mm
Reverse polarity protection		yes
Short-circuit protection		pulsing
Overload resistance		yes
Wire breakage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	U _d	≤ 2 V
Repeat accuracy	R	0.3 mm
Operating current	I _L	0 ... 200 mA , above 70°C max. 150 mA
Off-state current	I _r	≤ 10 µA
No-load supply current	I ₀	≤ 15 mA
Time delay before availability	t _v	≤ 50 ms
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1740 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cable PUR , 2 m
Core cross section		0.34 mm ²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Mass		100 g
Tightening torque, fastening screws		max. 10 Nm
Dimensions		
Length		50 mm
Diameter		12 mm

Connection Assignment



Installation

